

Volume Contents

Review

Recent advances in organometallic electrochemistry

- F. Battaglini, E.J. Calvo and F. Doctorovich 1

Regular Papers

- Ligand exchange photochemistry of $M_2(CO)_4(\mu-\eta^5, \eta^5-C_5H_4CH_2C_5H_4)$ ($M = Fe$ or Ru) and thermal acetylene exchange of $Ru_2(CO)(\mu-CO)[\mu-\eta^1: \eta^1-(C_6H_5)_2C_2](\mu-\eta^5, \eta^5-C_5H_4CH_2C_5H_4)$. The molecular structures of $Ru_2(CO)(\sigma-C_6H_5)(\mu-CO)[\mu-P(C_6H_5)_2](\mu-\eta^5, \eta^5-C_5H_4CH_2C_5H_4)$ and $Ru_2(CO)(\mu-CO)[\mu-\eta^1, \eta^3-C_6H_5C=C(C_6H_5)O]-(\mu-\eta^5, \eta^5-C_5H_4CH_2C_5H_4)$
T.E. Bitterwolf, J.L. Haener, J.E. Shade, A.L. Rheingold and G.P.A. Yap. 23
- Ruthenium carbonyl carboxylates with nitrogen containing ligands: IV. Catalytic activity in the hydroformylation of olefins in homogeneous phase
P. Frediani, M. Bianchi, A. Salvini, L.C. Carluccio and L. Rosi 35
- Conversion of meso-alkenes to chiral alkenes via titanocene-catalyzed ring-opening/ring-closing olefin metathesis
R.L. Halterman and T.M. Ramsey 41
- The oxidative addition of a vinylic C–H bond of divinyl(phenyl)phosphine at $M_3(CO)_{12}$ carbonyls ($M = Ru, Os$). Stepwise formation and crystal structure of $[(\mu-H)Ru_3(CO)_8\{PPh(CH=CH_2)_2\}\{\mu_3-PPh(CH=CH_2)(CH=CH)\}]$
R. Giordano, E. Sappa, G. Predieri and A. Tiripicchio 49
- Preparation and termination of carbosilane dendrimers based on a siloxane tetramer as a core molecule: silane arborols, part VIII
C. Kim and K. An 55
- Synthesis and crystal structure of cationic complex of ytterbium with organogermanium cuprate anions $\{[Yb(THF)_6]^{2+}[(Ph_3Ge)_2Cu]_2^-\} \cdot 2THF$
N.A. Orlov, L.N. Bochkarev, A.V. Nikitinsky, S.F. Zhiltsov, L.N. Zakharov, G.K. Fukin and S.Ya. Khorshev 65
- New macrocyclic oligoboronates
H. Höpfl and N. Farfán 71
- Darstellung, NMR-spektroskopische Charakterisierung und Reaktionen von Perfluoralkylsilber(I)-Verbindungen
D. Naumann, W. Wessel, J. Hahn and W. Tyrre 79
- Synthesis of gold(III) complexes with the 1,2-dithiolate-*o*-carborane ligand. Crystal structures of $[N(PPh_3)_2][AuCl_2(S_2C_2B_{10}H_{10})]$ and $[AuCl(S_2C_2B_{10}H_{10})(CH_2PPh_3)]$
O. Crespo, M.C. Gimeno, P.G. Jones and A. Laguna 89
- Asymmetric hydrosilylation of ketones catalyzed by ruthenium complexes with chiral tridentate ligands
G. Zhu, M. Terry and X. Zhang 97
- Preparation of $(\eta^5$ -cyclopentadienyl) and $(\eta^5$ -methylcyclopentadienyl)Fe(CO)₂Me cyclodextrin inclusion compounds and their subsequent ligand substitution reactions. Attempts at cyclodextrin mediated enantioselective ligand substitution
P.P. Patel and M.E. Welker 103
- Ferrous tris(trimethylsilyl)silanolates: synthesis, structure, reactivity and thermal decomposition
A.N. Kornev, T.A. Chesnokova, V.V. Semenov, E.V. Zhezlova, L.N. Zakharov, L.G. Klapshina, G.A. Domrachev and V.S. Rusakov 113
- Selective cleavage of a P–N bond promoted by alcohols in *cis*- $[Cl_2M(S-(Ph_2P)_2NC(H)(R')(R''))]$ complexes ($M = Pd, Pt$). X-ray crystal structure of *cis*- $[Cl_2Pt(PPh_2OMe)(S-Ph_2PN(H)C(H)(Me)(Ph))]$ · 0.75MeOH
A. Badía, L.R. Falvello, R. Navarro and E.P. Urriolabeitia 121
- Synthesis and molecular structure of *rac*-methylenebis(4,5,6,7-tetrahydro-1-indenyl)titanium dichloride
H.J.G. Lutikhedde, R. Leino, C.-E. Wilén, E. Laine, R. Sillanpää and J.H. Näsman 129

Reaction of the Si–Cl bond with trialkyl orthoformates. Preparation of alkoxy-substituted silanes U. Herzog, N. Schulze, K. Trommer and G. Roewer	133
Mono- and di-bridged heterobimetallic systems from group 5 hydride phosphido and hydride phosphino metalloligands. Crystal structure of $\text{Cp}_2\text{Ta}(\text{H})(\mu\text{-H})(\mu\text{-PMe}_2)\text{Cr}(\text{CO})_4$ O. Lavastre, G. Bonnet, G. Boni, M.M. Kubicki and C. Moïse.	141
Platinum-catalyzed reactions of 3,4-benzo-1,1,2,2-tetra(isopropyl)-1,2-disilacyclobut-3-ene with mono- and di-substituted alkynes A. Naka, T. Okada, A. Kunai and M. Ishikawa	149
Unsolvated dimeric organometallic samarium hydride versus solvated trisalkylborane supported monomeric hydride D. Baudry, A. Dormond, B. Lachot, M. Visseaux and G. Zucchi	157
Monomolecular silane films on glass surfaces—contact angle measurements C.E. Zybill, H.G. Ang, L. Lan, W.Y. Choy and E.F.K. Meng	167
The reactions of hydrosilanes with the methoxycarbonyl complexes $\text{Cp}(\text{L}(\text{CO})\text{MCO}_2\text{Me}$ ($\text{M} = \text{Fe, Ru}$; $\text{L} = \text{CO, PPh}_3$) and $(\text{L}(\text{CO})_x\text{MCO}_2\text{Me}$ ($\text{M} = \text{Co, Mn}$; $\text{L} = \text{CO, PPh}_3$; $x = 3, 4$, with and without catalysis M. DiBiase Cavanaugh, B.T. Gregg, R.J. Chiulli and A.R. Cutler	173
The carbenoid nature of halophosphines. Carbene-like insertion mechanism in the reaction of chlorophosphines with Cp_2NbH_3 G.I. Nikonov, Y.K. Grishin, D.A. Lemenovskii, N.B. Kazennova, L.G. Kuzmina and J.A.K. Howard	183
Bicyclic cyclopalladated complexes derived from <i>N</i> -benzyl-substituted Schiff's bases K. Hiraki, S. Ibaraki, M. Onishi, Y. Ono, J.K. Kawashima and M. Ando	199
Preparation and reactions of Cp_2HfRCl , $\text{Cp}_2\text{HfRR}'$ and hafnacyclopent-2-enes Y. Nishihara, T. Ishida, S. Huo and T. Takahashi	209
A synthetic and structural study on metal cluster complexes of allyl–alkynyl–silanes: Does protonation lead to metal-stabilized silyl cations? R. Ruffolo, S. Kainz, H.K. Gupta, M.A. Brook and M.J. McGlinchey	217
Aminochlorodisilanes: precursors to multifunctionalized disilane derivatives H. Stüger, P. Lassacher and E. Hengge	227
Monoarsenic, diarsenic and mixed phosphorus–arsenic substituted niobocenes G.I. Nikonov, A.J. Blake, J. Lorberth, D.A. Lemenovskii and S. Wocadlo	235
Organogold(III) metallacyclic chemistry. Part 1. Synthesis of the first auroxodimethylenemethane (auracyclobutan-3-one) and aurathietane-3,3-dioxide complexes. Crystal structure of $\{[\text{C}_6\text{H}_3(\text{CH}_2\text{NMe}_2)\text{-2-(OMe)-5}]\text{Au}[\text{CH}(\text{COPh})\text{S}(\text{O})_2\text{CH}(\text{COPh})]\}\cdot\text{C}_6\text{H}_6$ M.B. Dinger and W. Henderson	243
The magnetic and second-order nonlinear optical properties of some paramagnetic salts containing metallocarbaborane anions J.D. McKinney, F.S. McQuillan, H. Chen, T.A. Hamor, C.J. Jones, M. Slaski, G.H. Cross and C.J. Harding	253
Syntheses, structures and reactions of some new benzyl-substituted cyclopentadienyl titanium complexes Y. Qian, J. Huang, J. Yang, A.S.C. Chan, W. Chen, X. Chen, G. Li, X. Jin and Q. Yang	263
The synthesis and structure of a redox-active cryptand containing both aromatic and phenanthroline units within the macrocyclic structure. C.D. Hall, T.-K.-U. Truong and S.C. Nyburg	281
Synthesis and reactivity of new silyl substituted monocyclopentadienyl zirconium complexes. X-ray molecular structure of $[\text{Zr}(\eta^5\text{-C}_5\text{H}_4(\text{SiMe}_2\text{CH}_2\text{Ph}))(\text{CH}_2\text{Ph})_3]$ G. Ciruelo, T. Cuenca, R. Gómez, P. Gómez-Sal, A. Martín, G. Rodríguez and P. Royo	287
Cyclometallated complexes of palladium(II) with 1-methyl-2-phenylimidazole and tertiary diphosphines. Crystal and molecular structure of $[\{\text{Pd}[o\text{-C}_6\text{H}_4\text{C}=\text{NC}(\text{H})=\text{C}(\text{H})\text{NMe}]\}(\text{Ph}_2\text{PCH}(\text{Me})\text{PPh}_2\text{-P,P})][\text{PF}_6^-]$ J.M. Vila, M. Gayoso, Ma.T. Pereira, J.M. Ortigueira, M.L. Torres, A. Castiñeiras, A. Suárez, J.J. Fernández and A. Fernández	297
Activation of $\sigma(\text{C-H})$ bonds in ferrocenylhydrazones derived from acetylferrocene C. López, R. Bosque, X. Solans and M. Font-Bardía	309
The azamacrocyclic derivatives of $\text{H}_4\text{Ru}_4(\text{CO})_{12}$ and their reactivity with CO and catalytic activity in the methanol carbonylation and in the water–gas shift reaction K.O. Kallinen, T.T. Pakkanen and T.A. Pakkanen	319

Syntheses and molecular structures of mononuclear ruthenium carbonyl complexes containing 2,1-naphthoquinone-2-oximate ligands K.K.-H. Lee and W.-T. Wong	329
Electronic structures of linear germane–silane copolymer radical anions $[\text{Me}(\text{SiMe}_2)_n(\text{GeMe}_2)_n\text{Me}]^-$ ($n = 3-7$) in ground and low-lying excited states. A theoretical study H. Tachikawa	337
Dimeric and trimeric molybdenum(II) complexes containing 2-substituted η^3 -bonded butadienyl bridging ligands A.G.W. Hodson	343
Aryltitanium(IV) complexes with the η^3 -C,N,N'-pseudofacially coordinating ligand $[\text{C}_6\text{H}_4(\text{CH}_2\text{N}(\text{Me})\text{CH}_2\text{CH}_2\text{NMe}_2)_2]^-$. The X-ray crystal structure of $[\text{TiCl}_2(\text{CNN})(\text{O}-i\text{-Pr})]$ J.G. Donkersvoort, C.M.P. Kronenburg, B.-J. Deelman, J.T.B.H. Jastrzebski, N. Veldman, A.L. Spek and G. Van Koten	349
Functionalized imidazoline-2-ylidene complexes of rhodium and palladium W.A. Herrmann, L.J. Gooßen and M. Spiegler	357
<i>Conference Calender</i>	367
<i>Author Index</i>	369
<i>Subject Index</i>	371
<i>Volume Contents</i>	377

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request.